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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/895,848	06/29/2001	Paul F. Crowder	122.4-US-UI	5900	
22462	7590 01/28/2003				
GATES & COOPER LLP			EXAM	EXAMINER	
6701 CENTE	UGHES CENTER R DRIVE WEST, SUITE I	ZAHN, JEFFREY N			
LOS ANGEL	ES, CA 90045		ART UNIT PAPER NUMBER		
			2828	2828	
			DATE MAILED: 01/28/2003	DATE MAILED: 01/28/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Application   Examiner   Art Unit   2828   Ash CREENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.   Extravious of time may be available under the provision of 37 CFR 1.13(s), In no event, however, may array be sirrely filed select Std. (ACMTHS from the maining date of this communication.   Application No.   Extravious of time may be available under the provision of 37 CFR 1.13(s), In no event, however, may array be sirrely filed select Std. (ACMTHS from the maining date of this communication.   Application of the provision of 37 CFR 1.13(s), In no event, however, may array be sirrely filed select Std. (ACMTHS from the maining date of this communication.   Application of the provision of 17 CFR 1.13(s), In no event, however, may array be sirrely filed of this communication.   Application of the provision of Claims   Application of the provision of Claims   Application of the provision of Claims   Application   Ap									
## Coffice Action Summary  ## Carniner			Application No.	Applicant(s)	ľ				
Jeffrey N Zahn   2828		,	09/895,848	CROWDER, PAUL F.					
The MALING DATE of this communication appears on the cover sheet with the correspondence address—Period for R ply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Expensions of time may be available under the provision of 37 CFR 1.73(a), in no event, however, may a reply be timely flied  ### the period for reply specified above is less than they 300 days, a reply within the saturation primitimum of they (300 days will be considered timely).  ### the period for reply specified above is less than they 300 days, a reply within the saturation primitimum of they (300 MONTH) from the mailing date of this communication.  ### part of the period for reply specified above is less than they 300 days, a reply within the saturation primitimum of they (300 MONTH) from the mailing date of this communication.  ### part of the period for reply specified above is less than they 300 days, a reply with the precision to become ARAMONCED (300 U.S. \$ 133).  ### reply within the satur cardended period for reply with 100 days and under the period of the communication, even it may find, may reduce any search adjustment. See 37 CFR 1.74(b).  ### Responsive to communication(s) filed on	Office Action Summary		Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  - Extensions of time may be sealable under the provision of 37 GF1.136(a). In no event, however, nay a reply be timely filed  - Extensions of time may be sealable under the provision of 37 GF1.136(a). In no event, however, nay a reply be timely filed  - Extensions of time may be sealable under the provision of 37 GF1.136(a). In no event, however, nay a reply be timely filed  - Extensions of time may be sealable under the provision of 37 GF1.136(a). In no event, however, nay a reply be timely filed  - If NO period for reply specified above, the replacement of the provision of the communication of the provision of the									
THE MAILING DATE OF THIS COMMUNICATION.  - Eutresions of time may be autisable under the provision of 37 CPR 1.13(e). In no event, however, may a reply be timely filled after SIX (i) MONITS from the mailing date of this communication.  - If the period to reply specified above a less than fill (vi) (20 days, a region of the type (20) days will be considered firmly.  - Failure to reply which the sat or extended period for reply will. by stablet, cause the application to become ABANDONED (33 U.S.C. § 1.33):  - Any reply received by the Office later than three mailing date of dis communication, even if timely filled, may reduce any example patient term adjustment. See 37 CPR 1.74(b).  Status  1) Responsive to communication(s) filled on									
2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-6 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are ejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. § 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some* c) None of:  1. Certified copies of the priority documents have been received in Application No.  2. Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.  Attachment(s)  1) Interview Summay (PTO-413) Paper No(s).  1) Interview Summay (PTO-413) Paper No(s).	<ul> <li>THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>								
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<ul> <li>1. ☐ Certified copies of the priority documents have been received.</li> <li>2. ☐ Certified copies of the priority documents have been received in Application No</li> <li>3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).</li> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> <li>Attachment(s)</li> <li>1) ☐ Notice of References Cited (PTO-892)</li> <li>4) ☐ Interview Summary (PTO-413) Paper No(s)</li> </ul>	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
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3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 7.8 . 6) Other:	2) D Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Info						

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding Claims 1, and 4-6, the Applicant has claimed an "open loop controller..." in the preamble of the claim. The body of the claim fails to specify any structure to support the product claimed; therefore the claim is indefinite because it is unclear/vague as to what is being claimed.

Regarding Claims 2 and 3, it is unclear/vague as to where and how the temperature regulator is incorporated into the open loop controller and SGDBR.

### Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Coldren (US 4896325).

Coldren discloses an open loop controller (Fig. 1; (48)(44)(46)(50)) for a SGDBR laser (Fig. 1) comprising:

- a first mirror current (48);
- a second mirror current (48);
- a phase current (46;48); and

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a gain current (44),

the first mirror current, second current, phase current and gain current controlling an output wavelength of the SGDBR. (abstract; see also col. 7, line 64- col. 8, line 43)

It is implied within Coldren that "something" will control the settings of the controls to facilitate wavelength, gain, etc. control. (i.e. a human operator, etc) It is also implied that the operator will have documentation to support operation of the device.

The documentation will have information, i.e. tables, that list the values of mirror currents, gain current and phase current that operate the SGDBR device in a predictable manner, i.e. specific wavelength, etc.

### Claim Rejections - 35 USC § 103

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coldren as applied to Claim 1 above.

Coldren as applied to Claim 1 above lacks a temperature regulator as claimed. However, it is well known in the art that wavelength is a function of temperature relative to a SGDBR device. In addition it is well know in the art that a temperature regulator is used to stabilize the temperature of the SGDBR device. Therefore, it would have been obvious to one of ordinary skill in the art of laser at the time of the invention to combine Coldren with a temperature regulator to stabilize the temperature of the SGDBR and therefore stabilize the wavelength outputted.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey N Zahn whose telephone number is 703-305-3443. The examiner can normally be reached on M-F: 8:30-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on 703-308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Jeffrey Zahn

January 26, 2003

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